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THE CENTER LINE

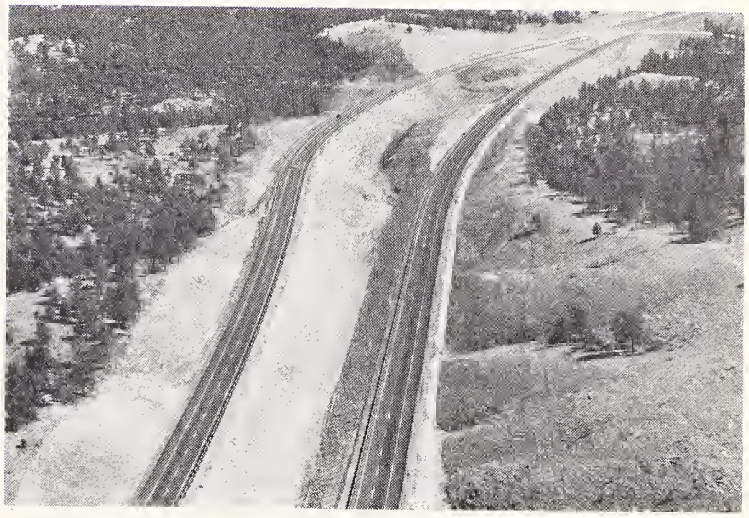
MONTANA HIGHWAY COMMISSION

Vol. VI., No. 10. October, 1963

IS-15 DEDICATED AT HELENA

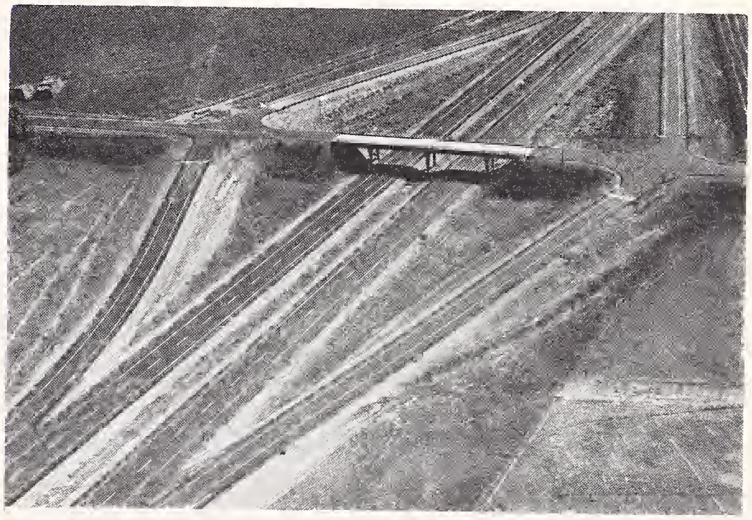
To the tune of 45 cheering, jeering, wisecracking passengers, Governor Tim Babcock drove a Greyhound Scenicruiser on the new Interstate highway, north of Helena on Oct. 1, as part of the dedication ceremonies for this new highway.

"Gear-jammer" Babcock drives the huge bus over the new highway as the first vehicle after the official opening.



Aerial view of the 4-lane divided Interstate going up Helena Hill.

It all started when the Helena Chamber of Commerce highway committee called a meeting to plan a ceremony of dedication of the highway between the Jefferson County line, just south of Helena, to the end of the Bud King project near Sieben. The entire distance is 28 miles, and is all open for traffic now.



Lincoln road interchange in the Helena valley.

With the help of the Public Information Department of the MHD, Opal Smith, Chamber secretary, organized the celebration which

(Continued on page 3)

GOVERNOR

Tim Babcock

STATE HIGHWAY COMMISSION

Roy L. Sorrells	Chairman
S. N. Halvorson	Vice-Chairman
J. M. Nass	Member
George M. Gosman	Member
Ted James	Member
John D. Wheeler	Secretary

STATE HIGHWAY DEPARTMENT

Fred Quinnell, Jr.	State Highway Engineer

EDITORIAL STAFF

George T. Sime	Editor
Ernest A. Neath	Associate Editor
Chet Dreher	Photographer
Kenneth L. Martello	Artist

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AWARD SHEET

Letting of Sept. 25, 1963

Project No.	Amount	Bidder	Address
I 90-8(19)443 U1 S-SG 192(4) U1 West Billings Interchange (Rd.) Yellowstone County	$ 1,347,355.79	Long Constr. Co., Inc.	Billings, Mont.
I 90-8(19)443 U2, F 228(19) U2 & S-SG 192(4) U2 West Billings Interchange (Fence) Yellowstone County	$ 28,124.13	U. S. Steel Corp.	Portland, Ore.
I 94-6(7) 216 & I 94-6(8)221 U1 Glendive-East & Wibaux Co. Line-West (Road, Bridges & Signs) Dawson County	$ 2,246,117.54	S. Birch, Inc., & Nilson-Smith Construction Co.	Great Falls, Mont.
I 94-6(8)221 U2 Wibaux Co. Line—West (Fencing) Dawson County	$ 76,267.30	J. C. Denton & Sons, Inc.	Beaverton, Ore.
F 217 (11) Gardiner-Livingston (Road) Park County	$ 1,025,000.00	Hilde Constr. Co., Inc.	Great Falls, Mont.
S 311 (5) Chinook-Cleveland-Hays (Road & Bridge) Blaine County	$ 220,722.97	Schye Co., Inc.	White Sulphur Sprgs., Mont.

LODGE OF SORROW

All Highway Commission employees were saddened on Sept. 29, when "Casey" Quinnell, as she was affectionately known, passed away.

We all join in extending our heart-felt sympathy to Fred and Arthur, husband and son, respectively.

Eastern Star funeral services for Mrs. Quinnell were held on October 2, and burial was in the Sunset Memorial Gardens of Helena.

KUDOS TO ALBERTON

The Mayor of Alberton, Roy Johnson, along with Aldermen Adam Gratz, Olin Smith, Charles Rock and A. D. Golle, seem to have the right idea about attracting attention to their beautiful little town in Western Montana.

Instead of sitting back and letting Interstate traffic whiz past their community, on the new Interstate which by-passes the town, these enterprising officials decided to improve their town lighting system. 18 mercury vapor lamps have been installed on both sides of the 10-block long main street, to supplement the old incandescent lights which were moved to side streets from the main thoroughfare. Besides this, 8 vapor lamps were installed on Adams Street in the residential section.

So, instead of singing the "blues", the people of Alberton (380 population) are now whistling "happy days are here again" because they have met highway progress with ingenuity, and have lighted their town so that motorists on the Interstate can't help but see a good reason to leave the super highway, and stop in this delightful little town, 30 miles west of Missoula.

INTERSTATE ROUTING DECIDED

The Highway Commission on October 10, announced that it had definitely decided to route Interstate 94 just North of Glendive.

This controversial routing has been changed back and forth on numerous occasions in the past two years.

Commission Chairman Sorrells said the BPR had approved the north route, and that a target date of October, 1965 had been set for putting this section under contract. The proposed new highway is planned as a 2-lane road, but a possible closer study will be made to determine if perhaps a 4-lane design could be justified.

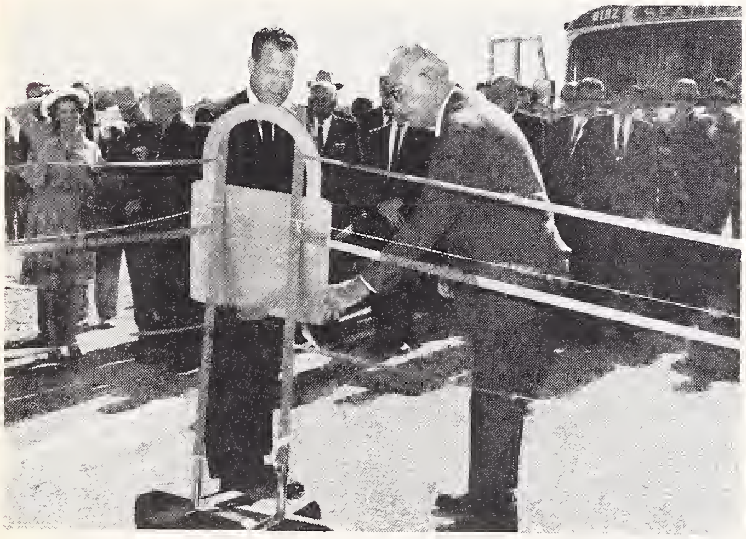
This 8-mile project will run northeast from the present U.S. 10, about a mile west of the 4-lane section west of Glendive, and swing gradually to the east, skirting the town. It will run between the airport and railroad to join with U. S. 10 and the completion of IS 94, east of Glendive.

IS-15 DEDICATION

(Continued from page 1)

included, besides the bus ride, a brief talk by the Governor at the Cedar Street Interchange, where the barrier had been erected; music by the High School band, and a no-host luncheon at Jorgenson's, at which time Commission Chairman Roy Sorrells addressed the crowd.

Everyone at attention during the National anthem, played by the high school band.



Governor Babcock and Chairman Roy Sorrells "unlock" the barrier to open the new highway.

Bob Funk of Wolf Creek was Master of Ceremonies at the dedication, and W. L. Bompart of Helena, presided at the luncheon.

The noon get-together was attended by Highway Department personnel, Chamber of Commerce members, contractors, representatives from the Montana Highway Users Association, Bureau of Public Roads, and the Greyhound lines.

HIGHWAY USERS FUNDS

In recent weeks there seems to have been some confusion as to the amount of highway revenue produced by the highway users of Montana. The table below was taken from the publication "Highway Statistics" published by the Bureau of Public Roads.

Since the 1962 edition is not yet available, the figures for 1961 are the last available.

In addition to the collections of Federal Highway Tax, a total of $26,130,000 was collected in state tax, making a total of $45,874,000 in revenue derived from highway user tax. $26,130,000, of which is deposited in Montana and $19,744,000 is sent to Washington. Of the funds sent to Washington, only $13,794,000 are deposited in the Federal Highway Trust fund and $5,950,000 are deposited in the General Fund, and not available for highway construction.

1961 FEDERAL AUTOMOTIVE EXCISE TAXES
PAID BY MONTANA HIGHWAY USERS

		To Fed. Hiway Trust Fund	
	Payments	**%**	**Amount**
Motor Fuel	$10,874,000	100	$10,874,000
Lubricating Oil	211,000	0	———
Mot. Veh. Use Tax	598,000	100	598,000
Automobiles and Motorcycles	3,892,999	0	———
Trucks, Buses and Trailers	1,986,000	50	993,000
Parts and Acc.	854,000	0	———
Tires and Tubes	1,251,000	100	1,251,000
Tread Rubber	78,000	100	78,000
TOTAL	$19,744,000		$13,794,000

FIRE SCARE

The Highway Department is oftentimes plagued by fires of one kind or another. In one particular instance last month, the State Parks Division had some anxious moments when it was reported to Ashley Roberts that a fire had broken out in the hills near Lewis and Clark Caverns. Ash was attending the luncheon being held at Jorgenson's in connection with the dedication of the new highway north of Helena, when his secretary, Alma

(Continued on page 4)

FIRE SCARE

(Continued from page 3)

James reported the fire near the caverns. Ash took off like a rocket, to assist the fire-fighters. After many hours of work, the conflagration was finally brought under control, although a great deal of damage had been done over many acres of land. However, the Caverns were not harmed, nor were any of the buildings.

Ash Roberts wants to express his gratitude to all who helped fight the blaze, both directly or indirectly. Special thanks go to Cal Fitzsimmons and Gene Goodland, maintenance foremen from the Butte office; Richard F. Everett, right of way agent from the Missoula office, who were in the area and those whose names are not known, and the gals on the radio desk in Butte, Helena, and Bozeman who helped coordinate efforts through radio dispatches.

TWO-LANE OR FOUR-LANE?

Governor Tim Babcock and Commission Chairman Roy Sorrells, are in agreement on 4-lane Interstate highways in the Treasure state.

At a speech at the Western Conference on Traffic Safety in Colorado Springs in September, the Governor stated that if all Interstate highways were 4-lane, "countless lives would be saved." Montana's chief executive said the radical transition comes as an unexpected surprise to motorists when they drop to two lanes after having been driving on 4-lane facilities.

Sorrells contends that the interjection of 2-lane sections between 4-lane will make the IS system obsolete before it is all completed in 1971.

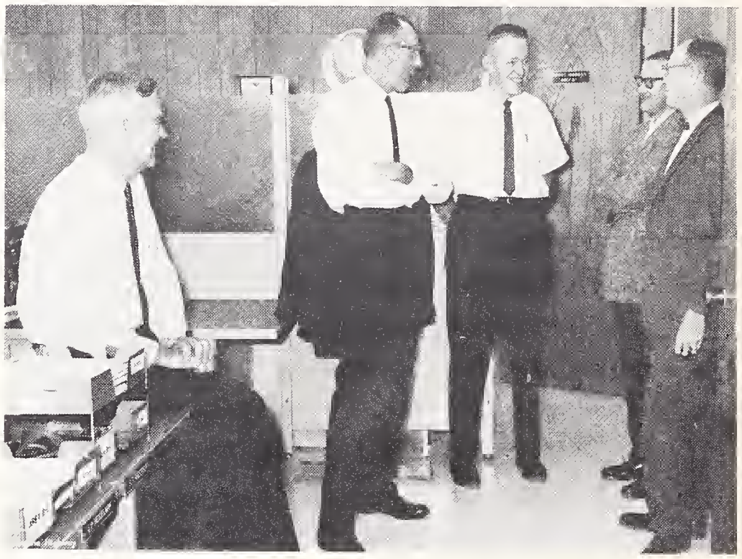
Department engineers say the interpretation of the rules by BPR is too strict, and that they are forced to compute traffic capacity at too low an estimated speed.

Sorrells gave a "follow-up" speech to the Motor Transport Association convention in Great Falls, Oct. 12, in which he reiterated the stand of the Governor and the Highway Department.

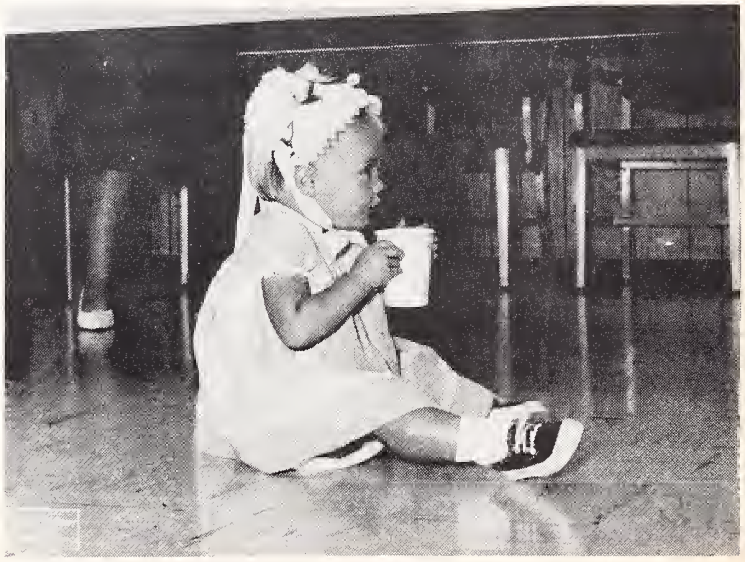
THE BPR HAS A PARTY

The BPR staged an open house on Sept. 10 to acquaint everyone with their new building.

Highway Department personnel, civic leaders, and other interested parties were invited to tour the building and enjoy a bit of light refreshment, and get better acquainted with the activities of this federal agency.



Here are some of the Highway department employees conversing with Bureau personnel. Reading l. to r. Ed Vollmer, assistant maintenance engineer; H. T. Anderson and Bill Dunbar, both of the BPR; Bob Champion, training-in-service engineer and Ernest Neath, assistant coordinator of public information.



Even the small fry got "into the act." This young lady is the daughter of H. T. Anderson, who accompanied her mother to the open house. Obviously, her prime interest in the proceedings was the serving of refreshments.

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
	FEDERAL AID PRIMARY PROJECTS		
101	F 33 (6) & F 108 (9)	9-30-64	8.0 miles grade, drain, aggregate & plant mix bituminous surface . (U. S. 87 - South of Roundup) .
102	F 207 (8)	12-31-63	0.2 miles grading, drainage, surfacing, plant mix bituminous & seal coat oiling . (U. S. 10 - In Butte) .
	U-F 242 (16)	12-31-63	0.8 miles grade, drain, surface & plant mix bituminous surfacing . (U. S. 91 - In Butte) .
	F 279 (4)	12-31-63	0.5 miles grade, drain, surface, plant mix bituminous & seal coat oiling . (U. S. 10 - ByPass - In Butte) .
1	193 (12)	12-31-63	11.6 miles grade, drain, surface & plant mix bituminous surfacing . (Montana 16 - Medicine Lake N.) .
	193 (13)	4-30-64	11.6 miles grass seeding (montana 16 - Medicine Lake N.) .
105	F 135 (18)	4-30-64	0.6 miles seeding & mulching . (U. S. 10 - W. of Miles City) .
106	F-FC 68 (12) U 1	9-1-64	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation . (U. S. 10 A - E. of Anaconda) .
	F-FG 68 (12) U 2	12-31-63	Four prestressed concrete beam bridges, dual 70 ft. - Clark Fork and dual 148 ft. - NP. RY. (U. S. 10 A - E. of Anaconda) .
	ROW-F-FC 68 (8)	12-31-63	2.7 miles fencing . (U. S. 10 A. - E. of Anaconda) .
107	F 134 (6)	9-30-64	0.7 miles grade, drain, surface, & plant mix bituminous surface . (U. S. 212 - Laurel S.) .
108	F 67 (9)	12-31-63	1.6 miles grade, drain, surface, stabilized base surface, plant mix bituminous, seal coat oil. (U. S. 91 - Main Street in Conrad) .
109	F 144 (8)	4-30-64	4.7 miles grass seeding . (U. S. 2 - Glasgow E.) .
110	U F 296 (15) U 1	12-31-63	4.2 miles (0.7 miles four-lane) grade, drain, surface & plant mix bituminous surfacing . (Montana 3 - Billings N. W.) .
	F 187 (13), F 230 (7) & U 296 (14)	12-31-63	0.1 mile lighting and signing at Intersection U. S. 10, 212, 87 & 312 . (U. S. 10 - Billings) .
111	F 149 (19) & 252 (15)	9-15-64	9.8 miles grade, drain, surface & plant mix bituminous surface . (U. S. 87 - S. W. of Fort Benton) .
112	F 26 (6) U 2	12-31-63	1.6 miles seal coating . (U. S. 87 - Grass Range N.) .
	F 103 (10) U 2	12-31-63	7.6 miles seal coating . (U. S. 191 - Roy E.) .
	F 333 (27) U 3	12-31-63	9.7 miles seal coating . (Montana 19 - Grass Range N.) .
	F 333 (28) U 2	12-31-63	3.9 miles seal coating . (U. S. 191 - Roy Junction N.) .
113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocate portion of NP RY. tracks . (U. S. 89 - S. of Livingston) .
114	F 46 (6)	12-31-63	11.3 miles plant mix bituminous surfacing . (Montana 47 - N. of Hardin) .
115	U FC 228 (16)	12-31-63	1.5 miles grade, drain, cement stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One concrete underpass - NP. RR. (U. S. 10 - In Billings) .
	F 228 (19) U 1	10-15-65	0.6 mile grade, drain, aggregate & plant mix bituminous surface . Signing & Delineation . (U. S. 10 - West Billings Interchange) .
	F 228 (19) U 2	10-15-65	0.6 mile fencing . (U. S. 10 - West Billings Interchange) .
116	F 264 (8)	10-31-64	6.4 miles grade, drain, aggregate and plant mix bituminous surfacing. (U. S. 12 - Townsend E.) .
117	ROW F 28 (3)	12-31-63	5.8 miles fencing . (U. S. 87 - S. of Grass Range) .
	F 28 (4)	12-31-63	5.8 miles grade, drain, surface, & plant mix bituminous surfacing . (U. S. 87 - S. of Grass Range) .
118	U 149 (15)	12-31-63	0.4 mile (0.1 mile four-lane divided) grade, drain, surface, plant mix bituminous surface . (U. S. 87 - ByPass - Great Falls N.) .
	U FG 395 (6)	12-31-63	1.5 miles (1.1 miles four-lane divided) grade, drain, surface, plant mix bituminous & concrete pavement . Two concrete underpasses - GN. RY. & Smelter Avenue . (U. S. 87 - ByPass - Great Falls N.) .
119	F 235 (25)	12-31-63	7.5 miles grade, drain, surface, plant mix bituminous surface . One 81 ft. prestressed concrete beam bridge - Otter Creek . (U. S. 87 - W. of Stanford) .
	F 235 (31)	12-31-63	4.0 miles plant mix bituminous surfacing . (U. S. 87 - W. of Stanford) .
120	F 114 (5)	9-1-64	2.4 miles grade, drain, surface & plant mix bituminous surfacing . (Hysham connection to Interstate) .
121	F FC 219 (16) U 1	12-31-63	9.8 miles grade, drain, surface & plant mix bituminous surfacing . (U. S. 10 A - N. W. of Missoula) .
122	F 9999 (1)	1-31-64	119 miles signing . (U. S. 10, 10 A, & 93 - Missoula to Kalispell) .
123	F 191 (20) U 1	12-31-63	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling . (U. S. 93 - N. of Polson) .
	F 191 (22)	12-31-63	7.3 miles seeding & mulching . (U. S. 93 - N. of Polson) .
126	U 277 (6) & F 388 (6)	12-31-63	2.6 miles street widening, curbs, plant mix bituminous surfacing, traffic signals and signing . (10th Avenue S. ByPass-In Great Falls) .
127	F 184 (15)	12-31-63	1.1 miles seeding & Mulching . (U. S. 10 - N. of Deer Lodge) .
131	F 185 (6) U 2	12-31-63	0.3 miles seal coating . (U. S. 10 - W. of Livingston) .
133	F 153 (8)	12-31-63	9.0 miles grade, drain, surface & plant mix bituminous surfacing . (U. S. 2 - E. of Dodson) .
	F 153 (9)	4-30-64	9.0 miles grass seeding . (U. S. 2 - E. of Dodson) .
134	F 176 (7)	7-30-64	5.3 miles grade, drain, surface & plant mix bituminous surfacing . (Montana 20 - E. of Simms) .
135	F 42 (1) U 3	12-31-63	9.2 miles seal coating . (Montana 43 - Wisdom W.) .
136	F 214 (3) U 2	12-31-63	1.0 miles seal coating . (U. S. 12 - In Helena) .
137	F 103 (12)	12-31-63	20.4 miles plant mix bituminous surfacing . (U. S. 191 - Hilger to Roy) .
138	F 210 (3)	12-31-63	6.0 miles plant mix bituminous surfacing . (U. S. 89 - N. W. of Browning) .
	F 227 (5)	12-31-63	4.0 miles plant mix bituminous surfacing . (U. S. 89 - N. W. of Browning) .
	F 227 (6)	12-31-63	4.3 miles grade, drain, surface, and plant mix surfacing . (U. S. 89 - N. W. of Browning) .
139	FHP 13-3 (1) *	1963	4.1 miles grade, drain & base . One 60 ft. reinforced concrete bridge-Bear Cr. One 26 ft. concrete slab bridge - Devil Creek . (U. S. 2 - SW - E. Glacier) .
140	F 209 (4)	9-15-64	5.5 miles grade, drain, aggregate & plant mix bituminous surface. Four 20 ft. concrete bridge . (U. S. 191 - W. of Bozeman) .
141	F 86 (22)	4-30-64	0.8 miles seeding & mulching . (U. S. 10 - S. W. of Miles City) .
142	F 315 (16) U 1	12-31-63	11.4 miles grade, drain & surface . (Montana 24 - S. E. of Fort Peck) .
	F 315 (16) U 2	12-31-63	One 133 ft. prestressed concrete beam bridge - Nelson Creek . (Montana 24 - S. E. of Fort Peck) .
	315 (17)	4-30-64	12.0 miles grass seeding . (Montana 24 - S. E. of Fort Peck) .
	315 (18)	4-30-64	11.4 miles grass seeding . (Montana 24 - S. E. of Fort Peck) .
145	F 157 (19)	7-15-64	10.9 miles, grade, drain, surface, & plant mix bituminous surface . Widen one 164 ft. - Concrete T Beam Bridge to 28 ft. roadway S. Fork Sunday Creek . One 122 ft. - prestressed concrete beam bridge - N. Fork Sunday Creek . (Montana 22 - N.W. of Miles City) .
	FEDERAL AID SECONDARY PROJECTS		
201	S 311 (5)	8-31-64	0.9 mile grade, drain, aggregate & road mix bituminous surface . One 213 ft. prestressed concrete beam bridge - Milk River . (S. of Chinook) .
202	S 58 (6)	8-31-65	1.1 miles grade, drain, aggregate & plant mix bituminous surface. One 650 foot welded steel plate girder bridge - Flathead River . One 128 foot prestressed concrete beam overpass - NP. RY. (Perma North) .
203	S 236 (8)	8-30-64	1.2 miles grade, drain, surface. One 562 ft. riveted plate girder bridge . (N. of U. S. 10 & Montana 47) .
204	ROW S 412 (2)	12-31-63	3.7 miles fencing . (E. Helena - Southerly) .
205	S 318 (4) & S 347 (11)	8-31-65	8.2 miles grade, drain, aggregate and plant mix bituminous surface . (Ekalaka South) .
	S 318 (3) & S 347 (10)	8-31-64	8.2 miles fencing . (Ekalaka South) .
206	S 192 (3)	12-31-63	Dual prestressed concrete beam bridges - I 90 Separation . (S. W. of Billings) .
	S-SC 192 (4) U 1	10-15-65	1.0 mile grade, drain, aggregate & plant mix bituminous surface. Signing & Delineation . (Connection to West Billings Interchange) .
	S-SG 192 (4) U 2	10-15-65	1.0 mile fencing . (Connection to West Billings Interchange) .
207	FHP 5-1 (1) 2 (2) *	1963	13.8 miles plant mix bituminous surfacing . (S. of Troy) .
208	S 26 (10)	12-31-63	One 102 ft. - prestressed concrete beam bridge - Soap Creek and approaches . (S. of St. Xavier) .
209	FHP 11-1 (1) & S 391-1 FH *	1963	32.5 miles grading, drainage and base . Raising of three timber bridges - Lolo Creek . (U. S. 12 - Lolo to Idaho State Line) .
210	S 359 (7)	10-15-64	3.0 miles grade, drain, aggregate and plant mix bituminous surfacing . One 50 ft. treated timber bridge - Drainage . (Glendive S.)
211	ERFO 42 (1) *	1963	7.1 miles (3.5 miles grading) drain, surface & plant mix bituminous surfacing . (N. W. of W. Yellowstone) .
214	S 65 (6)	12-31-63	4.9 miles grade & drain . One 245 ft. prestressed concrete beam bridge - Swan River . (S. of Big Fork E.) .
215	ROW S 370 (13)	12-31-63	Reset 239 rods of fencing . (W. of Wilsall) .
	S 370 (15)	12-31-63	6.7 miles grade, cement stabilized base, drain, plant mix bituminous & seal coat oiling . (W. of Wilsall) .
216	S 159 (4)	12-31-63	7.5 miles (partial grading) drain, surface, & plant mix bituminous surfacing . (Dodson S.) .
217	S 389 (3)	12-31-63	2.7 miles grade, drain, bituminous stabilized base, aggregate & plant mix bituminous . (Sidney Loop) .
218	S 316 (7)	12-31-63	0.4 miles grade, drain, aggregate & plant mix bituminous surfacing . Concrete curb & gutter . (In Cut Bank) .
219	S 85 (00) U 1 & S 85 (3) U 1	7-31-64	12.0 miles grade, drain, & surface . (Armstead W.) .
	S 85 (00) U 2 & S 85 (3) U 2	12-31-63	Three prestressed concrete beam bridges . One 92 ft. & 71 ft.-Horse Prairie Cr. One 71-ft.-Medicine Lodge Cr. (Armstead W.) .
220	S 28 (7) & S 28 (8)	9-30-64	8.8 miles grade, drain, & aggregate surfacing . (McLeod S.W.) .
221	S 129 (8)	12-31-63	7.0 miles grade, drain, surface, & plant mix bituminous surfacing . (Rapelje S.) .
222	S 401 (3) U 1	12-31-63	8.2 miles grade, drain and aggregate surfacing . (Plevna S.) .
	S 401 (3) U 2	6-30-64	Two 132 ft. - prestressed concrete beam bridges - Sandstone & S. Fk. Sandstone Cr. (Plevna S.) .
223	S 290 (16) & S 307 (12)	7-1-64	4.9 miles grade, drain, surface, & plant mix bituminous surfacing. Widen three timber bridges . (N. of Geraldine S.) .
224	S 2 (15) U 1	12-31-63	1.8 miles, grade, drain, surface, plant mix bituminous & seal coat oiling . (N. of Helena) .
225	S 200 (5)	12-31-63	13.2 miles (part aggregate surface) plant mix bituminous surfacing . (Froid W.) .
226	S 213 (4)	12-31-63	0.9 miles, grade, drain, surface, & plant mix bituminous & seal coat oiling . (E. of Butte) .
227	S 407 (2)	10-31-64	0.3 miles grade, drain and aggregate surface. One 457 ft. welded steel plate girder bridge . - Clark Fork . (S. E. of Alberton) .
228	S 361 (12)	7-15-64	6.6 miles grade, drain, surface, & plant mix bituminous surfacing . (Girard W. to E.) .
229	S 49 (7) U 2	12-31-63	9.0 miles seal coating . (White Sulphur Springs N. W.) .
231	S 6 (4) U 2	12-31-63	7.0 miles seal coating . (N. of Townsend) .
233	S 291 (6) U 2	12-31-63	5.4 miles seal coating . (N. of Avon) .
237	S 330 (1) U 2	12-31-63	2.5 miles seal coating . (East Helena S. W.) .
240	S 13 (5) U 2	12-31-63	5.3 miles seal coating . (Rudyard N.) .
241	S 82 (1) U 2	12-31-63	5.9 miles seal coating . (Choteau N.) .
242	S 290 (13) U 2	12-31-63	9.5 miles seal coating . (N. of Geraldine) .
243	S 301 (8) U 2	12-31-63	5.0 miles seal coating . (N. of Havre) .
247	S 368 (17)	7-16-64	8.7 miles aggregate, plant mix bituminous surfacing & Seal coating . (N. of Glasgow) .
248	S 402 (3)	12-31-63	7.8 miles grade, drain, surface, plant mix bituminous & seal coat oiling . (N. E. of Culbertson) .
250	S 121 (4)	12-31-63	11.6 miles (1.0 mile grade & drain) aggregate & plant mix bituminous surfacing . (Utica to Hobson) .
251	S 322 (7)	12-31-63	6.3 miles grade, drain, surface & plant mix bituminous surfacing . (E. of Hardin) .
	OFF SYSTEM PROJECTS		
303	R AD 7 (1) *	1963	8.7 miles grading, drainage & aggregate surfacing . (Brooks E.) .
30	P 59-2(1) & FL 59(1), (2)*	1963	8.7 miles grading, drainage, aggregate & plant mix bituminous surfacing . (S. of Red Lodge) .

- Bureau of Public Roads Projects .

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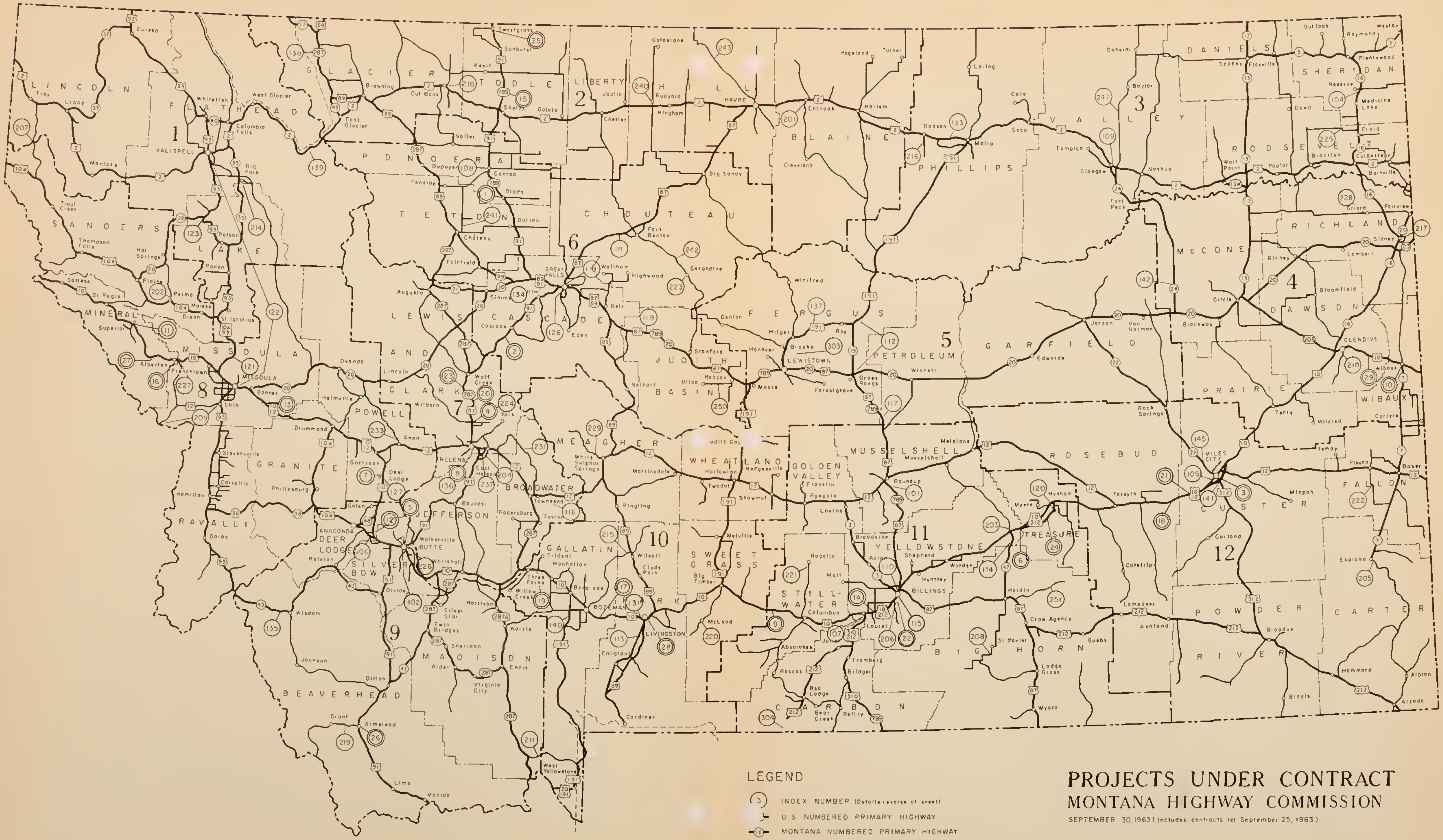
PROJECTS UNDER CONTRACT
MONTANA HIGHWAY COMMISSION

SEPTEMBER 30, 1963 (Includes contracts let September 25, 1963)


LINCOLN
FLATHEAD
GLACIER
TOOLE
LIBERTY
HILL
BLAINE
PHILLIPS
VALLEY
DANIELS
SHERIDAN
ROOSEVELT
RICHLAND
McCONE
DAWSON
WIBAUX
PRAIRIE
GARFIELD
PETROLEUM
FERGUS
JUDITH BASIN
CHOUTEAU
PONDERA
TETON
LEWIS AND CLARK
CASCADE
MEAGHER
WHEATLAND
GOLDEN VALLEY
MUSSELSHELL
ROSEBUD
CUSTER
FALLON
CARTER
POWDER RIVER
BIG HORN
TREASURE
YELLOWSTONE
STILLWATER
CARBON
SWEET GRASS
PARK
GALLATIN
MADISON
BEAVERHEAD
SILVER BOW
JEFFERSON
BROADWATER
DEER LODGE
GRANITE
POWELL
RAVALLI
MISSOULA
MINERAL
SANDERS
LAKE
1
2
3
4
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6
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11
12
Kalispell
Whitefish
Columbia Falls
Libby
Troy
Eureka
Browning
Cut Bank
Shelby
Sunburst
Sweetgrass
Conrad
Valier
Choteau
Chester
Joplin
Havre
Chinook
Harlem
Malta
Saco
Glasgow
Nashua
Wolf Point
Poplar
Culbertson
Scobey
Plentywood
Sidney
Circle
Glendive
Wibaux
Terry
Miles City
Forsyth
Hysham
Baker
Ekalaka
Broadus
Alzada
Great Falls
Fort Benton
Lewistown
Roundup
Harlowton
Billings
Hardin
Columbus
Red Lodge
Big Timber
Livingston
Bozeman
Three Forks
Townsend
Helena
Butte
Anaconda
Deer Lodge
Philipsburg
Hamilton
Missoula
Superior
Thompson Falls
Polson
Dillon
Virginia City
West Yellowstone
Gardiner
White Sulphur Springs
Stanford
Winnett
Jordan
Ryegate
Big Sandy

LEGEND

(3) INDEX NUMBER (Details reverse of sheet)

U S NUMBERED PRIMARY HIGHWAY

(16) MONTANA NUMBERED PRIMARY HIGHWAY

SECONDARY HIGHWAY

10 FINANCIAL DISTRICT NUMBER

FEDERAL AID INTERSTATE PROJECTS

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
1	I 15-6 (5) 311 U 1 & I 15-7 (3) 312 U 1	7-1-64	11.6 miles grade, drain, surface and plant mix bituminous surfacing . (U. S. 91 - Brady S. to N.) .
	I 15-6 (5) 312 U 2	7-1-64	1.0 mile fencing . (U. S. 91 - Brady S. to N.) .
	I 15-7 (3) 312 U 3	7-1-64	10.6 miles fencing . (U. S. 91 - Brady S. to N.) .
	I 15-7 (3) 312 U 2	12-31-63	Two prestressed concrete bridges. One 183 ft. Brady Interchange & one 153 ft. County Road Separation . (U. S. 91 - Brady S. to N.
	I 15-6 (6) 311 & I 15-7 (4) 312	7-1-64	11.6 miles signing and delineation . (U. S. 91 - Brady S. to N.) .
2	I 15-5 (13) 239 U 4	12-31-63	9.7 miles seal coating . (U. S. 91 - S. to N. of Cascade) .
3	I 94-4 (10) 127	12-31-63	20.7 miles signing and delineation . (U. S. 10 - W. to E. of Miles City) .
4	I 15-4 (6) 186 U 1	12-31-63	8.2 miles four-lane divided, grade, drain, surface, plant mix bituminous & seal coating . (U. S. 91 - Helena N.) . Weigh Station .
	I 15-4 (6) 186 U 4	12-31-63	8.2 miles fencing and cattle guards . (U. S. 91 - Helena N.) .
	I 15-4 (11) 182	4-30-64	28.2 miles seeding & mulching . (U. S. 91 - S. of Helena N.) .
	I 15-4 (15) 186	12-31-63	8.2 miles signing . (U. S. 91 - Helena N.) .
5	I 15-2 (14) 127 U 1	12-31-63	2.7 miles four-lane divided, grade, drain, surface, concrete paving, plant mix bituminous, seal coat oil. (U. S. 91 - In Butte) .
	I 15-2 (14) 127 U 2	12-31-63	2.7 miles fencing . (U. S. 91 - In Butte) .
	I-IG 15-2 (17) 130 U 1	12-31-63	1.5 miles grade, four-lane divided, drain, surface, plant mix bituminous, seal coat oiling . (U. S. 91 - Butte E.) .
	I-IG 15-2 (17) 130 U 3	12-31-63	1.5 miles fencing . (U. S. 91 - Butte E.) .
	I-IG 15-2 (16) 126 U 1 & I 115-2 (2) 126 U 1	9-30-64	2.6 miles grading, drain, surface, concrete paving, plant mix bituminous & seal coat oiling . (U. S. 91 - Butte W.) .
	I-IG 15-2 (16) 126 U 2 & I 115-2 (2) 126 U 2	9-30-64	Five structures . Two prestressed concrete beam overpasses . One 301 & 321 ft. BA&P RY. & CMSTP&P RR. Three steel & concrete overpasses . One 442 & 489 ft. NP RY & Clark Fork . One 244 ft. W. Butte Interchange . (U. S. 91 - Butte W .) .
	I-IG 15-2 (16) 126 U 3	9-30-64	2.2 miles fencing . (U. S. 91 - Butte W .) .
	I 115-2 (2) 126 U 3	9-30-64	0.4 mile fencing . (U. S. 91 - Butte W.) .
	I-IG 15-2 (16) 126 U 4	12-31-63	Dual 463 ft. steel & concrete overpasses - NP RY & CMSTP&P RR . (U. S. 91 - Butte W.) .
	I 15-2 (19) 126	10-15-64	5.5 miles signing, delineation & lighting . (U. S. 91 - W. of Butte E.) .
6	I 94-1 (6) 50 U 1 & I 94-2 (4) 51 U 1	12-31-63	5.5 miles grade, drain, surface, & plant mix bituminous surfacing . (U. S. 10 - W. of Hysham) .
	I 94-1 (6) 50 U 2	12-31-63	1.3 miles fencing . (U. S. 10 - W. of Hysham) .
	I 94-2 (4) 51 U 3	12-31-63	4.2 miles fencing . (U. S. 10 - W. of Hysham) .
	I 94-2 (5) 55 U 1	12-31-63	6.4 miles (4.0 miles four-lane divided) grade, drain, surface, plant mix bituminous surfacing . (U. S. 10 - S. W. of Hysham) .
	I 94-2 (5) 55 U 2	12-31-63	6.4 miles fencing . (U. S. 10 - S. W. of Hysham) .
7	I 90-3 (11) 180	12-31-63	8.6 miles seeding & mulching . (U. S. 10 - N. & S. of Deer Lodge) .
8	I-IG-ING 15-4 (4) 182 U 5 & I 15-4 (5) 185 U 3	12-31-63	4.0 miles seal coating . (U. S. 91 - Helena S.) .
9	I 90-7 (8) 387 U 1 & I-IG 90-8 (12) 388 U 1	12-31-63	5.9 miles grade, drain, surface, plant mix bituminous & seal coat oiling . Frontage Roads . (U. S. 10 - W. of Columbus) .
	I-IG 90-8 (12) 388 U 2	12-31-63	4.6 miles grade, drain, surface, plant mix bituminous, seal coat oil . Frontage Roads . (U. S. 10 - W. of Columbus) .
	I 90-7 (8) 387 U 3	12-31-63	5.9 miles fencing . (U. S. 10 - W. of Columbus) .
	I-IG 90-8 (12) 388 U 4	12-31-63	4.6 miles fencing . (U. S. 10 - W. of Columbus) .
	I 90-7 (11) 387 & I 90-8 (18) 388	12-31-63	10.5 miles signing & delineation . (U. S. 10 - W. of Columbus) .
10	I 94-7 (6) 233	4-30-64	15.2 miles seeding & mulching . (U. S. 10 - W. of Wibaux E.) .
11	I 90-1 (16) 43	8-30-63	6.7 miles seeding & mulching . (U. S. 10 - N. & S. of Superior) .
12	I-IG 90-4 (7) 205 U 1	9-1-64	4.5 miles four-lane divided, grade, drain, cement stabilized base, surfacing & plant mix bituminous surfacing. Frontage roads, rest areas, signing & delineation . (U. S. 10 - S. of Deer Lodge) .
	I-IG 90-4 (7) 205 U 2	6-30-64	Three prestressed concrete beam structures . One 206 - ft. Anaconda Interchange. Dual 211 ft. overpasses-CMSTP&P RR. (U. S. 10 - S. of Deer Lodge) .
	I-IG 90-4 (7) 205 U 3	12-31-63	4.5 miles fencing . (U. S. 10 - S. of Deer Lodge) .
13	I-IG 90-2 (10) 110 U 1	7-1-64	4.3 miles four-lane divided, grade, drain, surface, & plant mix bituminous surfacing . (U. S. 10 - W. of Bonner E .) .
	I 90-2 (11) 114 U 1	9-1-64	4.9 miles four-lane divided, grade, drain, surface, plant mix bituminous surface. Frontage Roads . (U. S. 10 - S. E. of Bonner) .
	I 90-2 (11) 114 U 2	7-1-64	4.9 miles fencing . (U. S. 10 - S. E. of Bonner) .
	I-IG 90-2 (10) 110 U 2	12-31-63	4.3 miles fencing . (U. S. 10 - W. of Bonner E.) .
	I-IG 90-2 (10) 110 U 3	7-31-64	Eight structures . Dual 343 ft. Steel Plate Girder - Blackfoot River . Six prestressed concrete beams, dual 153 ft. - CMSTP&P RR. Dual 118 ft. frontage road separation . Dual 118 ft. - Turah Interchange . (U. S. 10 - W. of Bonner E.) .
	I-IG 90-2 (10) 110 U 4	5-31-64	Dual 327 & 357 ft. steel girder overpass - NP. RY. (U. S. 10 - W. of Bonner E.) .
	I 90-2 (22) 108	5-31-65	Four continuous welded steel plate girder bridges - Dual 455 ft. & dual 404 ft. - Clark Fork . (U. S. 10 - west of Bonner East , .
	I 90-2 (23) 110	5-31-64	One 245 ft. - prestressed concrete beam underpass - U. S. 10 . (U. S. 10 - W. of Bonner .
14	I-IG 90-8 (17) 433 U 1	9-30-64	5.3 miles four-lane divided, grade, drain, surface, plant mix bituminous surface . Weigh Station . (U. S. 10 - Laurel E.) .
	I-IG 90-8 (17) 433 U 2	6-30-64	Eight structures, two 364 ft. steel overpasses (U. S. 212 - Laurel Interchange) six prestressed concrete beam structures, one 245 ft. county road separation , two 118 ft. - Mossmain Interchange & three 40 ft. - B.B.W.A. Canal . (U. S. 10 - Laurel E.) .
	I-IG 90-8 (17) 433 U 3	9-30-64	5.3 miles fencing . (U. S. 10 - Laurel E.) .
15	I 15-8 (14) 357 U 1	11-1-64	12.0 miles, grade, drain, surface, plant mix bituminous surface, rest area & signing . (U. S. 91 - N. of Shelby) .
	I 15-8 (14) 357 U 2	12-31-64	Two prestressed concrete beam structures, one 168 ft. - Co. Rd. Interchange, One 118 ft. - Wilmont Interchange . (U. S. 91 - N. of [illegible]y).
	I 15-8 (14) 357 U 3	12-31-63	12.0 miles fencing . (U. S. 91 - N. of Shelby) .
16	I 90-1 (17) 75 U 1	12-31-63	2.8 miles (1.1 miles four-lane divided) grade, drain, surface, plant mix bituminous surface . Frontage Roads . (U. S. 10 - Alberton W.).
	I 90-2 (16) 81	9-30-64	One 879 ft. welded steel plate girder bridge - Clark Fork . Dual 123 ft. prestressed concrete beam bridges-Nine Mile Interchange . (U. S. 10 - E. of Alberton) .
	I-IG 90-2 (18) 82	11-30-64	One 981 ft. welded steel plate girder bridge - Clark Fork & CMSTP&P RR . (U. S. 10 - E. of Alberton) .
	I 90-1 (17) 75 U 3	12-31-63	2.8 miles fencing . (U. S. 10 - Alberton W.) .
	I 90-2 (13) 78 U 1	12-31-63	2.2 miles grade, drain, surface, plant mix bituminous surface. One 17 ft. concrete slab junior grade separation . (U. S. 10 - Alberton E.) .
	I 90-2 (13) 78 U 3	12-31-63	2.2 miles fencing . (U. S. 10 - Alberton E.) .
	I-IG 90-2 (21) 80 U 1	11-15-64	4.3 miles (2.6 miles four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing . (U. S. 10 - E. of Alberton) .
	I-IG 90-2 (21) 80 U 2	11-15-64	4.3 miles fencing . (U. S. 10 - E. of Alberton) .
	I 90-1 (20) 75	12-31-63	2.8 miles signing and delineation . (U. S. 10 - Alberton west) .
	I 90-2 (19) 78	12-31-63	2.2 miles signing and delineation . (U. S. 10 - Alberton E.) .
17	I-IG 90-6 (2) 309 U 1	12-31-63	5.3 miles, four-lane divided, grade, drain, surface, plant mix bituminous, seal coat oil . Four prestressed concrete beam structures . Dual 113 ft. overpasses-Bear Creek Interchange . Dual 128 ft. overpasses-Trail Creek Interchange . Dual 335 ft. steel & concrete overpasses - NP. RY. (U. S. 10 - E. of Bozeman) .
	I-IG 90-6 (2) 309 U 2	12-31-63	5.3 miles fencing . (U. S. 10 - E. of Bozeman) .
	I 90-6 (2) 309 U 3	12-31-63	5.3 miles signing & delineation . (U. S. 10 - E. of Bozeman) .
	I 90-6 (12) 309	4-30-64	5.3 miles seeding & mulching . (U. S. 10 - E. of Bozeman) .
18	I 94-3 (7) 111 U 4	12-31-63	4.9 miles signing & delineation . (U. S. 10 - E. of Forsyth) .
	I 90-3 (8) 111	4-30-64	4.9 miles seeding & mulching . (U. S. 10 - E. of Forsyth) .
19	I-IG 90-6 (5) 276 U 1	12-31-63	5.5 miles four-lane divided, grade, drain, & one 235 ft. prestressed concrete beam underpass-Three Forks Interchange . Plant mix bituminous surfacing on relocation of U. S. 10 - Frontage Roads . (U. S. 10 - E. of Three Forks) .
	I-IG 90-6 (5) 276 U 2	12-31-63	5.5 miles fencing . (U. S. 10 - E. of Three Forks) .
	I 90-6 (7) 278	12-31-63	Four prestressed concrete beam bridges, dual 128 ft. - Lower Madison Road Separation, dual 143 ft. - Logan Interchange . (U. S. 10 - E. of Three Forks) .
	I-IG 90-6 (9) 276	6-30-64	Dual 735 & 624 ft. prestressed concrete beam structures - CMSTP&P RR., NP. RY, and Madison River . (U. S. 10 - E. of Three Forks) .
	I-IG 90-6 (10) 282 U 1	7-31-64	5.0 miles four-lane divided, grade & drain. Three prestressed concrete beam structures. Dual 158 ft. - CMSTP&P RR. One 235 ft. - Manhattan Interchange . (U. S. 10 - E. of Three Forks) .
	I-IG 90-6 (10) 282 U 2	7-31-64	5.0 miles fencing . (U. S. 10 - E. of Three Forks) .
	I-IG 90-6 (15) 276	9-28-64	10.5 miles cement stabilized base, aggregate surfacing, concrete pavement and signing . (U. S. 10 - E. of Three Forks) .
20	I 15-4 (9) 194 U 1	12-31-63	12.7 miles (7.7 miles four-lane divided) grade, drain, surface, plant mix bituminous, seal coat oil. Dual 118 ft. prestressed concrete beam overpasses - Gates of The Mountains Interchange . (U. S. 91 - N. of Helena) .
	I 15-4 (9) 194 U 2	12-31-63	12.7 miles fencing and cattle guards . (U. S. 91 - N. of Helena) .
	I 15-4 (12) 207 U 1	12-31-63	3.4 miles (2.3 miles four-lane divided) grade, drain, surface, plant mix bituminous, seal coat oil. (U. S. 91 - N. of Helena) .
	I 15-4 (16) 194	12-31-63	12.7 miles signing . (U. S. 91 - Helena N.) .
	I 15-4 (17) 204	12-31-63	3.4 miles signing . (U. S. 91 - Helena N.) .
21	I 94-4 (12) 119 U 3	12-31-63	8.6 miles signing & delineation . (U. S. 10 - W. of Miles City) .
	I 94-4 (11) 119	4-30-64	28.7 miles seeding & mulching . (U. S. 10 - W. of Miles City E.) .
22	I 90-8 (11) 444	12-31-63	Dual prestressed concrete beam bridges, 185 & 190 ft. - West Billings Interchange . (U. S. 10 - S. W. of Billings) .
	I 90-8 (25) 438	10-15-65	6.1 miles Signing & Delineation . (U. S. 10 - S.W. of Billings) .
	I 90-8 (19) 443 U 1	11-1-65	1.2 miles grade, drain, aggregate & plant mix bituminous surface . Signing & Delineation . (U. S. 10 - West Billings Interchange) .
	I 90-8 (19) 443 U 2	11-1-65	1.2 miles fencing . (U. S. 10 - West Billings Interchange) .
23	I 15-4 (18) 210 U 1 & I 15-4 (21) 210	11-30-64	2.1 miles four-lane divided, grading, drain, surfacing, plant mix bituminous surfacing & signing . (U. S. 91 - S. of Wolf Creek) .
	I 15-4 (18) 210 U 2	11-30-64	2.1 miles fencing . (U. S. 91 - S. of Wolf Creek) .
	I-IG 15-4 (19) 211	7-31-64	Four prestressed concrete beam structures, dual 534 ft. - Spring Creek Interchange, GN. RY. & Prickly Pear Creek, dual 135 ft. - Lyons Creek Separation . (U. S. 91 - S. of Wolf Creek) .
	I 15-4 (20) 212 U 1	9-30-64	5.8 miles grade, aggregate surface, plant mix bituminous surface and signing . Rest Area . (U. S. 91 - Wolf Creek S.) .
	I 15-4 (20) 212 U 2	9-30-64	5.8 miles fencing . (U. S. 91 - Wolf Creek S.) .
	I 15-4 (22) 210	11-30-64	Dual 519 ft. - Steel Bridge - Little Prickly Pear Creek . (U. S. 91 - Wolf Creek S.) .
24	I 94-2 (6) 61 U 1	9-1-64	5.6 miles grade, drain, surface & plant mix bituminous surfacing . One 143 ft. prestressed concrete beam overpass - Hysham Interchange . (U. S. 10 - S. W. of Hysham) .
	I 94-2 (6) 61 U 2	9-1-64	5.6 miles fencing . (U. S. 10 - S. W. of Hysham) .
25	I 15-8 (11) 383 U 2	12-31-63	4.5 miles fencing . (U. S. 91 - Sweetgrass S.) .
	I 15-8 (11) 383 U 1	11-15-64	4.5 miles (1.2 miles four-lane divided) grade, drain, surface, plant mix bituminous surfacing & signing . One 256 ft. prestressed concrete beam bridge - Sweetgrass Interchange . (U. S. 91 - Sweetgrass S.) .
26	I 15-1 (11) 37 U 4	12-31-63	7.8 miles seal coating . (U. S. 91 - Armstead South) .
	I 15-1 (17) 46 U 1	9-30-64	5.3 miles grade, drain, surface, plant mix bituminous surface. One 17 ft. concrete slab junior grade separation & signing . (U. S. 91 - Armstead North) .
	I 15-1 (17) 46 U 2	7-31-64	One 401 ft. - welded plate girder & one 163 ft. - prestressed concrete beam bridge - Beaverhead River . (U. S. 91 - Armstead N.) .
	I 15-1 (17) 46 U 3	9-30-64	5.3 miles fencing . (U. S. 91 - Armstead N.) .
27	I 90-1 (21) 67	6-30-65	One 807 foot continuous welded plate girder bridge - Clark Fork (U. S. 10 - west of Alberton) .
28	I-IG 90-7 (9) 327 U 5	12-31-63	11.8 miles seal coating . (U. S. 10 - Livingston W. to E.) .
29	I 94-6 (7) 216	11-1-65	4.2 miles signing . (U. S. 10 - East of Glendive) .
	I 94-6 (8) 221 U 1	11-1-65	12.8 miles grade, drain, aggregate and plant mix bituminous surface . Widen one 106 ft. - Griffith Creek . One 123 feet prestressed concrete beam bridge - Hodgee Road Separation . (U. S. 10 - East of Glendive) . Signing & Delineation .
	I 94-6 (8) 221 U 2	10-15-64	12.8 miles fencing . (U. S. 10 - East of Glendive) .

FEDERAL AID PRIMARY PROJECTS

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
101	F 33 (6) & F 108 (9)	9-30-64	8.0 miles grade, drain, aggregate & plant mix bituminous surface . (U. S. 87 - South of Roundup) .
102	F 207 (8)	12-31-63	0.2 miles grading, drainage, surfacing, plant mix bituminous & seal coat oiling . (U. S. 10 - In Butte)
	U-F 242 (16)	12-31-63	0.8 miles grade, drain, surface & plant mix bituminous surfacing . (U. S. 91 - In Butte , .
	F 279 (4)	12-31-63	0.5 miles grade, drain, surface, plant mix bituminous & seal coat oiling . (U. S. 10 - bypass - In Butte) .
1	193 (12)	12-31-63	11.6 miles grade, drain, surface & plant mix bituminous surfacing . (Montana 16 - Medicine Lake N.) .
	193 (13)	4-30-64	11.6 miles grass seeding (Montana 16 - Medicine Lake N.) .
105	F 135 (18)	4-30-64	0.6 miles seeding & mulching . (U. S. 10 - W. of Miles City) .
106	F-FG 68 (12) U 1	9-1-64	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation . (U. S. 10 A - E. of Anaconda) .
	F-FG 68 (12) U 2	12-31-63	Four prestressed concrete beam bridges, dual 70 ft. - Clark Fork and dual 148 ft. - NP. RY. (U. S. 10 A - E. of Anaconda) .
	ROW-F-FG 68 (8)	12-31-63	2.7 miles fencing . (U. S. 10 A. - E. of Anaconda) .
107	F 114 (6)	9-30-64	0.7 miles grade, drain, surface, & plant mix bituminous surface . (U. S. 212 - Laurel S.) .
108	F 67 (9)	12-31-63	1.6 miles grade, drain, surface, stabilized base surface, plant mix bituminous, seal coat oil. (U. S. 91 - Main Street in Conrad) .
109	F 144 (8)	4-30-64	4.7 miles grass seeding . (U. S. 2 - Glasgow E.) .
110	U F 296 (15) U 1	12-31-63	4.2 miles (0.7 miles four-lane) grade, drain, surface & plant mix bituminous surfacing . (Montana 3 - Billings N. W.) .
	F 187 (13), F 230 (7) & U 296 (14)	12-31-63	0.1 mile lighting and signing at Intersection U. S. 10, 212, 87 & 312 . (U. S. 10 - Billings) .
111	F 149 (19) & 252 (15)	9-15-64	9.8 miles grade, drain, surface & plant mix bituminous surface . (U. S. 87 - S. W. of Fort Benton) .
112	F 26 (6) U 2	12-31-63	1.6 miles seal coating . (U. S. 87 - Grass Range N.) .
	F 103 (10) U 2	12-31-63	7.6 miles seal coating . (U. S. 191 - Roy E.) .
	F 333 (27) U 3	12-31-63	9.7 miles seal coating . (Montana 19 - Grass Range N.) .
	F 333 (28) U 2	12-31-63	3.9 miles seal coating . (U. S. 191 - Roy Junction N.) .
113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocate portion of NP RY. tracks . (U. S. 89 - S. of Livingston) .
114	F 46 (6)	12-31-63	11.3 miles plant mix bituminous surfacing . (Montana 47 - N. of Hardin) .
115	U FG 228 (16)	12-31-63	1.5 miles grade, drain, cement stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One concrete underpass - NP. RR. (U. S. 10 - In Billings) .
	F 228 (19) U 1	10-15-65	0.6 mile grade, drain, aggregate & plant mix bituminous surface . Signing & Delineation . (U. S. 10 - West Billings Interchange) .
	F 228 (19) U 2	10-15-65	0.6 mile fencing . (U. S. 10 - West Billings Interchange) .
116	F 264 (8)	10-31-64	6.4 miles grade, drain, aggregate and plant mix bituminous surfacing. (U. S. 12 - Townsend E.) .
117	ROW F 28 (3)	12-31-63	5.8 miles fencing . (U. S. 87 - S. of Grass Range) .
	F 28 (4)	12-31-63	5.8 miles grade, drain, surface, & plant mix bituminous surfacing . (U. S. 87 - S. of Grass Range) .
118	U 149 (15)	12-31-63	0.4 mile (0.1 mile four-lane divided) grade, drain, surface, plant mix bituminous surface . (U. S. 87 - ByPass - Great Falls N.) .
	U FG 395 (6)	12-31-63	1.5 miles (1.1 miles four-lane divided) grade, drain, surface, plant mix bituminous & concrete pavement . Two concrete underpasses - GN. RY. & Smelter Avenue . (U. S. 87 - ByPass - Great Falls N.) .
119	F 235 (25)	12-31-63	7.5 miles grade, drain, surface, plant mix bituminous surface . One 81 ft. prestressed concrete beam bridge - Otter Creek . (U. S. 87 - W. of Stanford) .
	F 235 (31)	12-31-63	4.0 miles plant mix bituminous surfacing . (U. S. 87 - W. of Stanford) .
120	F 114 (5)	9-1-64	2.4 miles grade, drain, surface & plant mix bituminous surfacing . (Hysham connection to Interstate) .
121	F FG 219 (16) U 1	12-31-63	7.8 miles grade, drain, surface & plant mix bituminous surfacing . (U. S. 10 A - N. W. of Missoula) .
122	F 9999 (1)	1-31-64	119 miles signing . (U. S. 10, 10 A, & 93 - Missoula to Kalispell) .
123	F 191 (20) U 1	12-31-63	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling . (U. S. 93 - N. of Polson) .
	F 191 (22)	12-31-63	7.3 miles seeding & mulching . (U. S. 93 - N. of Polson) .
126	U 277 (6) & F 388 (6)	12-31-63	2.0 miles street widening, curbs, plant mix bituminous surfacing, traffic signals and signing . (10th Avenue S. ByPass-In Great Falls) .
127	F 184 (15)	12-31-63	1.1 miles seeding & Mulching . (U. S. 10 - N. of Deer Lodge) .
131	F 185 (6) U 2	12-31-63	0.3 miles seal coating . (U. S. 10 - W. of Livingston) .
133	F 153 (8)	12-31-63	9.0 miles grade, drain, surface & plant mix bituminous surfacing . (U. S. 2 - E. of Dodson) .
	F 153 (9)	4-30-64	9.0 miles grass seeding . (U. S. 2 - E. of Dodson) .
134	F 176 (7)	7-30-64	5.3 miles grade, drain, surface & plant mix bituminous surfacing . (Montana 20 - E. of Simms) .
135	F 42 (1) U 3	12-31-63	9.2 miles seal coating . (Montana 43 - Wisdom W.) .
136	F 214 (3) U 2	12-31-63	1.0 miles seal coating . (U. S. 12 - In Helena) .
137	F 103 (12)	12-31-63	20.4 miles plant mix bituminous surfacing . (U. S. 191 - Hilger to Roy) .
138	F 210 (3)	12-31-63	6.0 miles plant mix bituminous surfacing . (U. S. 89 - N. W. of Browning) .
	F 227 (5)	12-31-63	4.0 miles plant mix bituminous surfacing . (U. S. 89 - N. W. of Browning) .
	F 227 (6)	12-31-63	4.3 miles grade, drain, surface, and plant mix surfacing . (U. S. 89 - N. W. of Browning) .
139	FHP 13-3 (1) *	1963	4.1 miles grade, drain & base . One 60 ft. reinforced concrete bridge-Bear Cr. One 26 ft. concrete slab bridge - Devil Creek . (U. S. 2 - Sw - E. Glacier) .
140	F 209 (4)	9-15-64	5.5 miles grade, drain, aggregate & plant mix bituminous surface. Four 20 ft. concrete bridge . (U. S. 191 - W. of Bozeman) .
141	F 86 (22)	4-30-64	0.8 miles seeding & mulching . (U. S. 10 - S. W. of Miles City) .
142	F 315 (16) U 1	12-31-63	11.4 miles grade, drain & surface . (Montana 24 - S. E. of Fort Peck) .
	F 315 (16) U 2	12-31-63	One 133 ft. prestressed concrete beam bridge - Nelson Creek . (Montana 24 - S. E. of Fort Peck) .
	315 (17)	4-30-64	12.0 miles grass seeding . (Montana 24 - S. E. of Fort Peck) .
	315 (18)	4-30-64	11.4 miles grass seeding . (Montana 24 - S. E. of Fort Peck) .
145	F 157 (19)	7-15-64	10.9 miles, grade, drain, surface, & plant mix bituminous surface . Widen one 164 ft. - Concrete T Beam Bridge to 28 ft. roadway S. Fork Sunday Creek . One 122 ft. - prestressed concrete beam bridge - N. Fork Sunday Creek . (Montana 22 - N.W. of Miles City) .

FEDERAL AID SECONDARY PROJECTS

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
201	S 311 (5)	-31-64	0.7 mile grade, drain, aggregate & road mix bituminous surface . One 213 ft. prestressed concrete beam bridge - Milk River . (S. of Chinook) .
202	S 58 (6)	8-31-65	1.1 miles grade, drain, aggregate & plant mix bituminous surface. One 650 foot welded steel plate girder bridge - Flathead River . One 128 foot prestressed concrete beam overpass - NP. RY. (Perma North) .
203	S 236 (8)	8-30-64	1.2 miles grade, drain, surface. One 562 ft. riveted plate girder bridge . (N. of U. S. 10 & Montana 47) .
204	ROW S 412 (2)	12-31-63	3.7 miles fencing . (E. Helena - Southerly) .
205	S 318 (4) & S 347 (11)	8-31-65	8.2 miles grade, drain, aggregate and plant mix bituminous surface . (Ekalaka South) .
	S 318 (3) & S 347 (10)	8-31-64	8.2 miles fencing . (Ekalaka South) .
206	S 192 (3)	12-31-63	Dual prestressed concrete beam bridges - I 90 Separation . (S. W. of Billings) .
	S-SG 192 (4) U 1	10-15-65	1.0 mile grade, drain, aggregate & plant mix bituminous surface. Signing & Delineation . (Connection to West Billings Interchange) .
	S-SG 192 (4) U 2	10-15-65	1.0 mile fencing . (Connection to West Billings Interchange) .
207	FHP 5-1 (1) 2 (2) *	1963	13.8 miles plant mix bituminous surfacing . (S. of Troy) .
208	S 26 (10)	12-31-63	One 102 ft. - prestressed concrete beam bridge - Soap Creek and approaches . (S. of St. Xavier) .
209	FHP 11-1 (1) & S 391-1 FH *	1963	32.5 miles grading, drainage and base . Raising of three timber bridges - Lolo Creek . (U. S. 12 - Lolo to Idaho State Line) .
210	S 359 (7)	10-15-64	3.0 miles grade, drain, aggregate and plant mix bituminous surfacing . One 50 ft. treated timber bridge - Drainage . (Glendive S.)
211	ERFO 42 (1) *	1963	7.1 miles (3.5 miles grading) drain, surface & plant mix bituminous surfacing . (N. W. of W. Yellowstone) .
214	S 65 (6)	12-31-63	4.9 miles grade & drain . One 245 ft. prestressed concrete beam bridge - Swan River . (S. of Big Fork E.) .
215	ROW S 370 (13)	12-31-63	Reset 239 rods of fencing . (W. of Wilsall) .
	S 370 (15)	12-31-63	6.7 miles grade, cement stabilized base, drain, plant mix bituminous & seal coat oiling . (W. of Wilsall) .
216	S 159 (4)	12-31-63	7.5 miles (partial grading) drain, surface, & plant mix bituminous surfacing . (Dodson S.) .
217	S 389 (3)	12-31-63	2.7 miles grade, drain, bituminous stabilized base, aggregate & plant mix bituminous . (Sidney Loop) .
218	S 316 (7)	12-31-63	0.4 miles grade, drain, aggregate & plant mix bituminous surfacing . Concrete curb & gutter . (In Cut Bank) .
219	S 85 (00) U 1 & S 85 (3) U 1	7-31-64	12.0 miles grade, drain, & surface . (Armstead W.) .
	S 85 (00) U 2 & S 85 (3) U 2	12-31-63	Three prestressed concrete beam bridges . One 92 ft. & 71 ft.-Horse Prairie Cr. One 71-ft.-Medicine Lodge Cr. (Armstead W.) .
220	S 28 (7) & S 28 (8)	9-30-64	8.8 miles grade, drain, & aggregate surfacing . (McLeod S.W.) .
221	S 129 (8)	12-31-63	7.0 miles grade, drain, surface, & plant mix bituminous surfacing . (Rapelje S.) .
222	S 401 (3) U 1	12-31-63	8.2 miles grade, drain and aggregate surfacing . (Plevna S.) .
	S 401 (3) U 2	6-30-64	Two 132 ft. - prestressed concrete beam bridges.- Sandstone & S. Fk. Sandstone Cr. (Plevna S.) .
223	S 290 (16) & S 307 (12)	7-1-64	4.9 miles grade, drain, surface, & plant mix bituminous surfacing. Widen three timber bridges . (N. of Geraldine S.) .
224	S 2 (15) U 1	12-31-63	1.8 miles, grade, drain, surface, plant mix bituminous & seal coat oiling . (N. of Helena) .
225	S 200 (5)	12-31-63	13.2 miles (part aggregate surface) plant mix bituminous surfacing . (Froid W.) .
226	S 213 (4)	12-31-63	0.9 miles, grade, drain, surface, & plant mix bituminous & seal coat oiling . (E. of Butte) .
227	S 407 (2)	10-31-64	0.3 miles grade, drain and aggregate surface. One 457 ft. welded steel plate girder bridge . - Clark Fork . (S. E. of Alberton) .
228	S 361 (12)	7-15-64	6.6 miles grade, drain, surface, & plant mix bituminous surfacing . (Girard W. to E.) .
229	S 49 (7) U 2	12-31-63	9.0 miles seal coating . (White Sulphur Springs N. W.) .
231	S 6 (4) U 2	12-31-63	7.0 miles seal coating . (N. of Townsend) .
233	S 291 (6) U 2	12-31-63	5.4 miles seal coating . (N. of Avon) .
237	S 330 (1) U 2	12-31-63	2.5 miles seal coating . (East Helena S. W.) .
240	S 13 (5) U 2	12-31-63	5.3 miles seal coating . (Rudyard N.) .
241	S 82 (1) U 2	12-31-63	5.9 miles seal coating . (Choteau N.) .
242	S 290 (13) U 2	12-31-63	9.5 miles seal coating . (N. of Geraldine) .
243	S 301 (8) U 2	12-31-63	5.0 miles seal coating . (N. of Havre) .
247	S 368 (17)	7-16-64	8.7 miles aggregate, plant mix bituminous surfacing & Seal coating . (N. of Glasgow) .
248	S 402 (3)	12-31-63	7.8 miles grade, drain, surface, plant mix bituminous & seal coat oiling . (N. E. of Culbertson) .
250	S 121 (4)	12-31-63	11.6 miles (1.0 mile grade & drain) aggregate & plant mix bituminous surfacing . (Utica to Hobson) .
251	S 322 (7)	12-31-63	6.3 miles grade, drain, surface & plant mix bituminous surfacing . (E. of Hardin) .

OFF SYSTEM PROJECTS

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH , TYPE OF CONSTRUCTION AND LOCATION
303	R AD 7 (1) *	1963	8.7 miles grading, drainage & aggregate surfacing . (Brooks E.) .
301	(P 59-2(1) & FL 59(1), (2)*	1963	8.7 miles grading, drainage, aggregate & plant mix bituminous surfacing . (S. of Red Lodge) .

* - Bureau of Public Roads Projects .

275 YEARS OF SERVICE TO MHD.

Ray Spurzem of Kalispell heads the list this month of service awards, with a 40-year pin. One 35-year award goes to Thomas L. Watt, and a 30-year to Gerald E. Fleming. Two 20's are Richard A. Newton and Billie Deal Furnish. Among the 15-year employees are Francis W. Toombs, Gaylord E. Huckins, and Edward G. Dorothy. 10-year awards go to Elvira G. Warren, Thomas C. Stevens, Francis D. Scannell, Walter R. Ringer, Maurice E. Malone, Harold R. Demers, and Neol K. Adams. Five-year pins to Francis B. Lyons, Robert L. Houx, and Lois C. Baker. Add these up and you get 275 years of service to the Montana Highway Department. Congratulations to these loyal employees.

Somehow or another, the information about Albert Croskery, 20-years; Floyd Pauli and Lorren Claridge, both 15 years, didn't get to us for last month's issue. These three are in the Kalispell division. Sorry we missed it.

THIS MONTH'S ENCOMIUM

We always like to receive complimentary letters. The following was sent to the editor of the Billings Gazette, but since it uses the Highway Department as its main subject, we can't help but feel a bit of pride in reproducing it as it appeared in the Gazette on October 16.

Editor, the Gazette:

As guests from California in beautiful and exciting Montana, I could not leave without a word regarding your magnificent highways. Even the detours are well engineered and planned.

From the lowest "badlands" to the top of the beautiful mountains there is a feeling of wanting to return.

The warmth and friendliness of the Billings Toastmistress Club is second to none. I felt I was a member and had belonged for a long time.

My husband, who grew up in and around Big Timber, joins me in the love of your wonderful Montana.

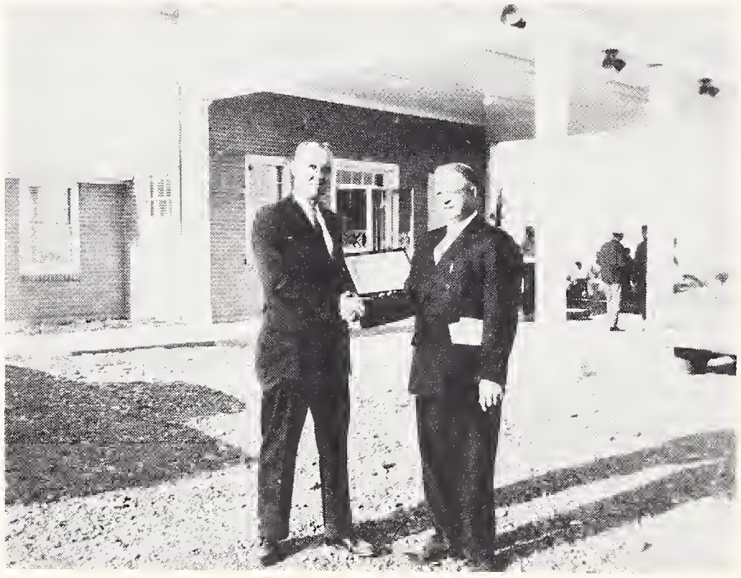
Mrs. Irving O. Johnson
Alameda, California

NEW FACILITIES DEDICATED

The Highway Department was represented at the dedication of the new U. S. Customs building at Opheim port of entry on Oct. 12.

Commissioner Joseph (Bud) Nass of Poplar was present for the occasion and as part of the ceremonies presented Resner Blikken with a plaque on behalf of the Commission for Blikken's long service in promoting civic progress in the Opheim area.

Commissioner Nass spoke briefly, and informed the gathering that secondary roads are the responsibility of county commissioners and are intended as farm-to-market roads. But when their use far transcends this purpose, they demand special treatment. He said that such was the case with Montana 247, and it would get more attention in due course.



In the accompanying photo (courtesy of H. W. Helland of the Glasgow Courier) Nass is shown making the presentation to Blikken.

INTERESTING FIGURES ON THE HELENA INTERSTATE

Construction engineer Lehman Fox, compiled some interesting facts about the new Interstate near Helena. Between the Jefferson County line, just south of Helena, to the mouth of Wolf Creek Canyon (28 miles), there were five major grading and surfacing contracts. The first was awarded on June 17, 1959 to Sletten Construction Co., for a 1,607-foot dual railroad overpass. Other con-

(Continued on page 10)

INTERESTING FACTS

(Continued from page 9)

tractors were Hilde, Zook Brothers, McNutt and Baulne, and King & McLaughlin.

Approximately 6,598,423 yards of excavation were moved, which is equivalent to the requirements for 24,715 basements, 40x30x6.

2,351,813 tons of base and top gravel surfacing were used.

304,180 tons of plant mix bituminous surfacing was laid, which would provide pavement 2½ inches thick, and 24 ft. wide, for 171 miles—or from Helena to Shelby.

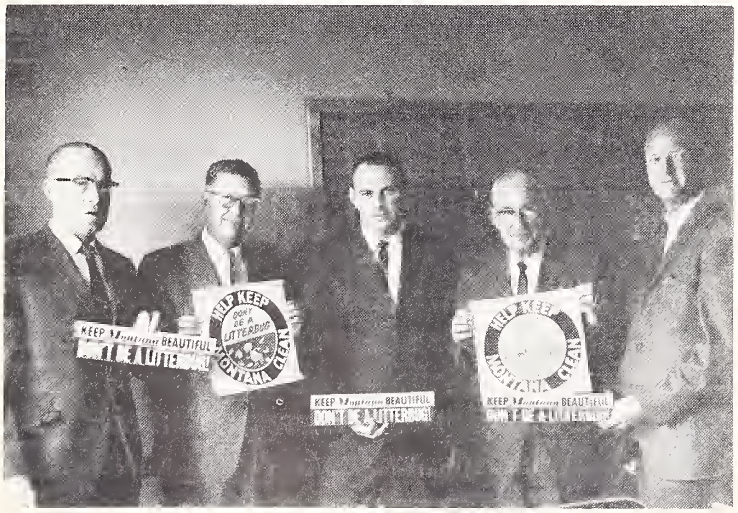
Almost five million gallons of bituminous materials were used.

HIGHWAY USERS CONFERENCE

The Montana Highway Users Conference held their regular meeting in Billings on October 3. Chairman Ray Reavley of Great Falls presided.

A feature of the meeting was a question and answer session between the members of the association, and Highway Department personnel which included Chairman Roy Sorrells, R/W engineer Lewis Chittim, commission attorney Donald MacPherson, Public Information Coordinator, George Sime, Planning Survey Manager, Howard Buswell, District Engineer Paul Johnson and Assistant P.I.C. Ernest Neath. Larry Venable, Seattle, of the National H.U.C., was also present.

The Montana Beer Wholesalers Association explained their campaign against litter on the highways, and displayed bumper strips and decals which they are distributing. In the accompanying photo, the visual advertising material is displayed by William Schumacher, of the MBWA, George Washington, President Billings Chamber of Commerce, Harrison Fagg, President Montana Junior Chamber of Commerce, commission chairman Roy Sorrells, and MHUC president Ray Reavley.



NEWS FROM THE DIVISIONS

Bozeman

You may be sure that with the hunting season upon us, the "Mighty Hunters" of the Bozeman Division are preparing for the opportunity to get into the mountains and bring home the game.

It is with deep regret that the Bozeman Division announces the loss of two fellow employees. Mr. Frank L. Maykuth passed away Sept. 20, 1963 after a short illness. Frank had been with the Bozeman Division since January 22, 1934 and held several positions here, one being that of Sectionman. Frank was well thought of and will be missed by all.

Mr. Harold Kilbride passed away quite suddenly on the job, Sept. 23, 1963. He had been with the Department since 1947 and he, too, will be missed by his fellow workers.

We also announce that due to ill health, Mr. Frank Woirhaye, Sectionman, has retired from the Department after 26 years of faithful service. All his fellow employees wish him the very best of luck and hope that his being at home will enable him to regain his health.

A meeting was conducted by Mr. Barrett October 16, 1963 in regard to Insurance in the Bozeman Division office which was well attended and at which the guest speaker was Mr. Tom Mulaney of Helena who explained the insurance program to those attending. After the close of that meeting, another meeting was held in which Mr. Richard L. Miller, Div. Office Engineer explained the New Expense Policy to those attending. Mr. Hup Davis, office manager and Gunwald Brenden, Clerk V, conducted a refresher course in Accounting Procedure.

There have been some birthdays celebrated in the office including that of Mr. Barrett and "Gunner" Brenden. We might add that we had a hard time catching up with Mr. Barrett to celebrate his birthday.

Great Falls

Dennis C. Tenney, Rodman at Simms, long known and admired for his ability to avoid involvement with the fairer sex, finally threw in the towel and on Sept. 6, 1963, embraced the noble institution of matrimony. The newly weds spent some time honeymooning on the West coast. (Some fellows will do anything for a summertime vacation!)

Luck—Good and Bad. While working on a project in the Great Falls shop, John McMasters suffered a painful back injury. At present "Curly" is strung out in a traction harness in the Deaconess Hospital in Great Falls.

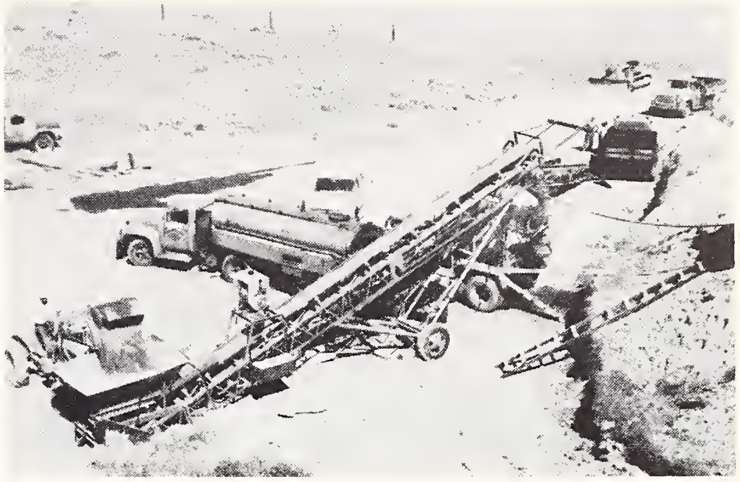
Congratulations to the Gary Steens on the arrival of their boy-type young-un.

Miles City

Kenneth G. Quale and Myrna Lee Stabio were united in marriage on October 6, 1963. All of Kenny's fellow employees take this opportunity to congratulate him and his new bride and to wish them many years of happiness.

Effective and efficient operation of the Division Laboratory and related duties are capably performed in the Miles City Division by the employees pictured here. From left to right are: Arthur Braut, Materials Supervisor; James Cahill, Laboratory Technician; Lawrence Nelson, Materials Inspector and Bruce Jackman, Laboratory Technician.

"Slurry" sealing operations were recently completed by the maintenance department on an eleven mile section of U. S. 212, beginning ten miles west of Broadus, in an attempt to seal numerous lateral and transverse cracks which have developed since this project, using cement stabilized base, was constructed in 1958.



Material utilized to perform this work consisted of minus 4-mesh reject aggregate from the original construction project, SS-1 emulsified asphalt and water. These materials were blended in a four-yard mixer using 2.6 cubic yards aggregate, 150 gallons asphalt and 250 gallons of water.

This mixture was then hauled to the roadway in dump trucks and spread approximately one-quarter inch in depth with a "slurry" box manufactured in the Division shop. To assist in uniform application and maximum penetration of the numerous cracks, the roadway surface was "lubricated" with water immediately prior to application of the slurry mixture. This was accomplished with the Divi-

(Continued on next page)

sion weed spray unit—the spray bar being attached to the front bumper.

This maintenance project was under the immediate supervision of Guy W. Hough, maintenance foreman and John F. Van Vynck, division engineer.

GIGANTIC PAINT JOB

This year, MHD will splash 30,000 gallons of white paint on the ground. 1,000 miles of Montana highways will have shoulder striping, such as the photo shows at Cascade.

According to Tom Ratchford, Maintenance Engineer, it takes 30 gallons of paint per mile, and the material costs $1.80 per gallon. Quick arithmetic will show that it costs $54,000 for paint. Add to that the cost of application which is $10 per mile, and you get a grand total of $64,000 for this entire job.

SIGN VANDALISM

THIS IS A TYPICAL EXAMPLE OF SIGN VANDALISM, WHICH COSTS THE HIGHWAY USERS THOUSANDS OF DOLLARS ANNUALLY.

A 30 INCH STOP SIGN COSTS $10.15
A SCHOOL ZONE SIGN COSTS $ 8.45
A CURVE SIGN COSTS $10.00
A REFLECTORIZED DELINEATOR COSTS .30
A 12 INCH LETTER FOR INTERSTATE SIGN COSTS $1.90

THESE FIGURES DO NOT INCLUDE INSTALLATION COSTS. WON'T YOU HELP ELIMINATE THIS NEEDLESS WASTE? PLEASE DON'T SHOOT THE SIGNS ON MONTANA HIGHWAYS. REPORT ANYONE YOU SEE DESTROYING HIGHWAY PROPERTY.

The Highway Department has embarked on a campaign to minimize this wanton destruction of public property.

Each of the Division offices have been supplied with a card which is to be attached to a demolished sign taken from the right of way. Displays are being made in various public buildings to try to get the story across to the public that the highway users have to pay for this destruction.

The Fish and Game Department is cooperating in this campaign, in that theirs is the enforcing agency for those who shoot a gun across or from a public highway.

All Highway Department personnel are asked to cooperate by reporting any vandalism of signs.

The Center Line
STATE HIGHWAY DEPARTMENT
Helena, Montana

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